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| APPLICATION NO. | FI | LING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 09/936,294 03/11/2002 | |)3/11/2002 | Yuji Kakehi | 2576-118 | 2437 |
| 6449 | 7590 | 04/11/2006 | | EXAM | INER |
| ROTHWEI | L, FIGG | , ERNST & MA | GHULAMALI, | GHULAMALI, QUTBUDDIN | |
| 1425 K STR | EET, N.W | 7. | ART UNIT | PAPER NUMBER | |
| SUITE 800 WASHINGT | ON, DC | 20005 | 2611 | | |

DATE MAILED: 04/11/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

| Office Action Summary Caturb Chulamail Caturb | | Application No. | Applicant(s) | | | | |
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| ### Examiner Qutub Ghulamali 2611 **The MAILING DATE of this communication appears on the cover sheet with the correspondence address = Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of inten may be available under the processors of 31 CPR 1,134(b), in no event, however, may a reply be shirlly filled in 1th Oparido for reply subjective box, the meaning about period will warp size (MONTHS from the mailing date of this communication = Failure to reply whithin the set or extended period for reply will, by stanted, causes the application to become ABANCONED (35 U.S. C.§ 131) as after adjustment, See 37 CPR 1,704(b). **The Variety of the processor of the reply will, by stanted, causes the application to become ABANCONED (35 U.S. C.§ 130) as aftered patent term adjustment. See 37 CPR 1,704(b). **Status** 1 S Responsive to communication(s) filled on 10 March 2006. 2a) | | | | | | | |
| Outub Chulamali —The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Roply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Enthistics of time may be available under the provisions of 3 V CFR 1 3 Might. In no event, however, may a reply to limity fled sheet SIX (6) MONTHS from the provisions of 3 V CFR 1 3 Might. If NO period for reply is specified above, the maintenanciation. If NO period for reply is specified above, the maintenanciation and the SIX (6) MONTHS from the mainting date of this communication. If NO period for reply is specified above, the maintenanciation and the state of the communication and the state of the state | Office Action Summary | | | | | | |
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| WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be embedied under the provision of 37°CFR 1.1363, in no event, however, may a regly be timely filed after SIX (6) MONTHS from the mailing date of this communication of SIX (6) MONTHS from the mailing date of this communication. Failuse to regly within the act or redended period for regly with by states (as well as explication). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any seamed patient term adjustment. See 37 CFR 1.704(b). Status 1) □ Responsive to communication(s) filed on 10 March 2006. 2a) □ This action is FINAL. 2b) □ This action is non-final. 3) □ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) □ Claim(s) 3-8 and 14-23 is/are pending in the application. 4a) Of the above claim(s) □ is/are withdrawn from consideration. 5) □ Claim(s) 3-1 is/ara file star rejected. 7) □ Claim(s) 3-1 is/ara file star explication and/or election requirement. Application Papers 9) □ The specification is objected to by the Examiner. 10) □ The drawing(s) filed on □ is/are: a) □ accepted or b) □ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the corrections is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) □ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) □ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) □ All b) □ Some * c) □ None of: 1. □ Certified copies of the priority documents have been received in Application No. □ . 1. □ Certified copies of the priority documents ha | | | | | | | |
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DETAILED ACTION

1. This Office Action is responsive applicant's Remarks/Amendments filed on 03/10/2006.

Claim Objections

2. Claim 3 is objected to because of the following informalities: Claim 3, lines 5 and 9 recite "fame", should not it recite "frame"? Appropriate correction is required.

Response to Arguments/Amendments

3. Applicant's request (see remarks/arguments pages 8-9) for reconsideration of the finality of the rejection of the last Office action with reference to rejection of claims 1, 2, 8, 10-13 and 15, under 35 U.S.C. § 103(a), has been considered and therefore, as a result, the finality of that action is withdrawn. The amendment after final has been entered.

However, the indicated allowability to claim 17 is hereby withdrawn. The rejection follows:

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

5. Claims 8, 17, 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shou et al (USP 5,910,948) in view of Lomp et al (USP 5,991,332).

Regarding claim 8, Shou discloses a mobile communication terminal comprising: a receiver (12) receiving a radio wave (11) from base stations (abstract; fig. 1; col. 3, lines 15-20, 45-48);

a detector detecting spread codes from signals received by said receiver (col. 3, lines 45-63; col. 5, lines 60-67);

a demodulator (30) demodulating the received signals with the spread codes detected by said detector (22, correlators 1-n) (col. 6, lines 18-37);

a control unit (correlator controller) dividing a slot into a plurality of search ranges, deleting multipath in said search range, successively allowing demodulator (30) to demodulate the received signals and allowing decoder to decode the demodulated data (abstract; col. 3, lines 45-63; col. 4, lines 20-27; col. 6, lines 6-17). Shou however, is silent regarding:

a decoder decoding data demodulated by said demodulator, and stopping signal processing of the cell search in response to detection of invalid cell code.

Lomp in a similar field of endeavor discloses,

a decoder (fig. 15, elements 1713-1716) decoding data demodulated by said demodulator (col. 31, lines 1-15): and

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successfully allowing demodulator to demodulate the received signals allowing decoder to decode the demodulated data processing of the cell search in response to detection of invalid cell code (match and dismiss) (col. 30, lines 57-67; col. 31, lines 1-4). It would have been obvious to a person of ordinary skill in the art at the time the invention was made to use a decoder and stopping signal processing of the cell search as taught by Lomp in the circuit of Shou because it can allow decoding of encoded data in each of the received message channel and facilitate search process so that signal power level of despread associated code signal is optimized.

With reference to claim 17, Shou discloses a mobile communication terminal comprising:

a receiving radio signals (11) from base stations (abstract; fig. 1; col. 3, lines 15-20, 45-48);

detecting slot timings from said received signals (col. 3, lines 45-63; col. 5, lines 60-67); detecting a plurality of paths within each slot (col. 3, lines 15-20, 47-50,65-67); detecting spread codes from said received signals (col. 6, lines 5-12, 33-35); for each of the plurality of paths, deleting multipath of the spread codes already detected within a predetermined time (col. 6, lines 28-43); successively demodulating the received signals subjected to the deletion of the

Regarding claim 18, Shou discloses decoding process is not performed if the newly detected code is the multipath (col. 6, lines 20-30).

multipath with said detected spread codes (col. 31, lines 1-15); and

decoding said demodulated data (col. 3, lines 1-15).

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Allowable Subject Matter

- 6. Claims 3-7 would be allowable if rewritten to overcome the claim objection highlighted above.
- 7. Claim 14-16 and 19-23 allowed.

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Qutub Ghulamali whose telephone number is (571) 272-3014. The examiner can normally be reached on Monday-Friday, 7:00AM - 4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mohammad Ghayour can be reached on (571) 272-3021. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

QG.

April 6, 2006.

EAN B) COHRIELUS RIMARY EXAMINER 4-8-0 C